



COMPLIANCE COMPONENT

DEFINITION	
<i>Name</i>	Open DataBase Connectivity (ODBC)
<i>Description</i>	ODBC is a database access method which bridges access to data from an application, regardless of which database management system (DBMS) is handling the data. ODBC manages this by inserting a middle layer, called a database driver, between an application and the DBMS. The purpose of this layer is to translate the application's data queries into commands that the DBMS understands. For this to work, both the application and the DBMS must be ODBC-compliant -- that is, the application must be capable of issuing ODBC commands and the DBMS must be capable of responding to them.
<i>Rationale</i>	Standardized and consistent ODBC design enables State of Missouri users to effectively bridge the transfer of data between multiple applications and databases.
<i>Benefits</i>	ODBC: <ul style="list-style-type: none"> • Is easily learned by programmers with Object Oriented experience. • Enables compatibility between an extensive collection of Applications across an array of platforms and databases. • Provides an alternative to writing System API programs.
ASSOCIATED ARCHITECTURE LEVELS	
<i>Specify the Domain Name</i>	Interoperability
<i>Specify the Discipline Name</i>	Data Exchange
<i>Specify the Technology Area Name</i>	Data Transfer Protocols/Standards
<i>Specify the Product Component Name</i>	
COMPLIANCE COMPONENT TYPE	
<i>Document the Compliance Component Type</i>	Guideline
<i>Component Sub-type</i>	
COMPLIANCE DETAIL	
<i>State the Guideline, Standard or Legislation</i>	<p>ODBC General</p> <p>ODBC is a native interface that is accessed through a language that can make calls into a native library. In case of the Windows platform, this library is a DLL. Versions of ODBC exist for Microsoft, UNIX, OS/2, and Macintosh platforms.</p> <p>In addition to the ODBC software, a separate module or driver is needed for each database to be accessed. The functions in the ODBC API are implemented by these DBMS-specific drivers. ODBC allows programs to use SQL requests that will access databases without having to know the proprietary interfaces to the databases.</p> <p>It handles the SQL request and converts it into a request the individual database system understands.</p> <p>Most current DBMS's support ODBC which means that computer programs that rely on ODBC can connect to several different brands of DBMSs using</p>

	<p>the same basic code.</p> <p>ODBC Use Guidelines (examples)</p> <ul style="list-style-type: none"> Consider using a server-based ODBC solution when developing an Object based solution. <p>ODBC aligns with the following specifications and standards that deal with the Call-Level Interface (CLI). (The ODBC features are a superset of each of these standards.)</p> <ul style="list-style-type: none"> The X/Open CAE Specification "Data Management: SQL Call-Level Interface (CLI)" ISO/IEC 9075-3:1995 (E) Call-Level Interface (SQL/CLI) 		
Document Source Reference #	Webopedia - http://www.webopedia.com/TERM/O/ODBC.html Wikipedia - http://en.wikipedia.org/wiki/ODBC		
Compliance Sources			
Name	CALL-LEVEL INTERFACE (SQL/CLI) – NIST Standard	Website	http://www.nist.fss.ru/hr/doc/mstd/iso/9075-3-95.htm
Contact Information	See Web site.		
Name		Website	
Contact Information			
KEYWORDS			
List Keywords	ODBC, JDBC, DB connectors		
COMPONENT CLASSIFICATION			
Provide the Classification	<input type="checkbox"/> Emerging <input checked="" type="checkbox"/> Current <input type="checkbox"/> Twilight <input type="checkbox"/> Sunset		
Sunset Date			
COMPONENT SUB-CLASSIFICATION			
Sub-Classification	Date	Additional Sub-Classification Information	
<input type="checkbox"/> Technology Watch			
<input type="checkbox"/> Variance			
<input type="checkbox"/> Conditional Use			
Rationale for Component Classification			
Document the Rationale for Component Classification			
Migration Strategy			
Document the Migration Strategy			
Impact Position Statement			
Document the Position Statement on Impact			
CURRENT STATUS			
Provide the Current Status	<input type="checkbox"/> In Development <input type="checkbox"/> Under Review <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected		

AUDIT TRAIL			
<i>Creation Date</i>	5/3/2005	<i>Date Approved / Rejected</i>	
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			